Status Update on House Bill 45 (Radon Study)

by the

Utah Geological Survey and the DEQ Radon Program

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HB 45

•	LO	NG TITLE
	8	General Description:
	8 9 10 11 12 13 14 15 16 17 18 19 20 21	This bill requires the Department of Natural Resources to study and make
	10	recommendations regarding radon gas.
	11	Highlighted Provisions:
	12	This bill:
	13	 defines terms; and
	14	requires the Department of Natural Resources to study and make recommendations
	15	to the Natural Resources, Agriculture, and Environment Interim Committee on:
	16	 ways to increase public awareness about the risks of radon gas; and
	17	 ways to mitigate Utah residents' exposure to radon.
	18	Money Appropriated in this Bill:
	19	None
	20	Other Special Clauses:
		None
	22	Utah Code Sections Affected:
	23	ENACTS:
	24	79-2-405 Utah Code Annotated 1953



Radon Hazard Summary

• Radon: a colorless, tasteless and odorless radioactive gas from uranium decay in soil and rock that concentrates in enclosed spaces (basements are a good example)





Radon Hazard Summary

- Radon is the 2nd leading cause of lung cancer after smoking.
- Between 1973 and 2017, an estimated 5826 radon-related fatalities occurred in Utah*.
 - Utah's most deadly and costly geologic hazard.
 - Total, first-year health care costs
 of \$2.7 to \$3.6 million.

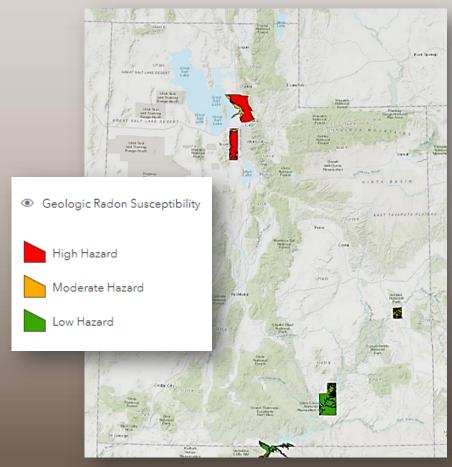


*Utah Department of Health

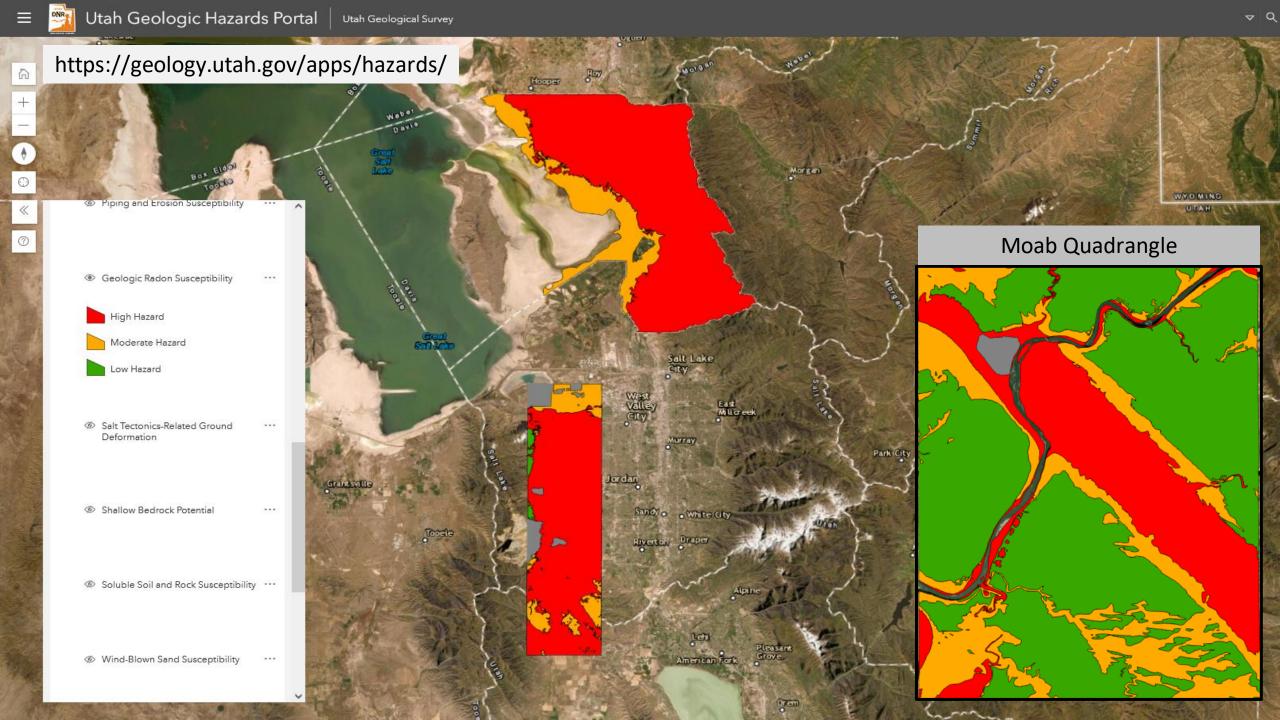
UGS Geologic Radon Hazard Mapping

The UGS maps geologic radon hazard using available geologic, DEQ radon testing, and other data.

Completed Maps: Davis County, parts of the Glen Canyon National Recreation Area, and the Copperton, Magna, Moab, and Tickville Spring quadrangles along the Wasatch Front.







UGS Geologic Radon Hazard Mapping

The UGS works with DEQ to:

- Obtain indoor radon testing data,
- Provide educational outreach about radon hazards, and
- Provide and share geoscientific data and expertise.





DEQ's Radon Program in Operation for 30 Years Highlights of Life-saving Radon Program

- Lung cancer has definitely been linked to radon exposure.
- The DEQ Radon Program is estimated to save over 200 lives in Utah every year. *
- DEQ collects radon data from home testing with over 65,000 completed tests.
- DEQ works with many partners that reduce the levels of radon in your home (builders, medical, real estate, non-profits, coalitions, schools, tribes, etc.).
- Radon testing is easy and inexpensive (\$10.95) for Utah residents.
- Radon reduction in homes is relatively inexpensive (\$1,500).
- January is National Radon Action Month Proclamation signed and outreach planned.



*Utah Cancer Control & HCI estimate that 20% of lung cancer deaths are caused by Radon Gas.



Radon: Moving Forward - More to Be Done

- · Increase public awareness with legislative funding every year.
- Tax credit for building radon out of a home.
- Radon Mitigation Assistance Program
- Provide information to new homeowners.
- Test schools and daycares every 5 years for radon.
- Increase students awareness of: Radiation, Radioactivity, and Radon.
- Provide curriculum and toolkits for teachers.
- Increase coordination between DEQ and UGS.
 - Reduce Utahns exposure to radon in new building construction.



- Improve Awareness of Radon Hazards
 - Provide radon test data to the public by U.S. Census block, rather than by zip code as currently provided.
 - By statute, require all radon test results from laboratories and radon mitigation contractors be forwarded to the Radon Program.
 - Develop a new geospatial radon test database and web map application utilizing available DEQ and other data.



- Improve Awareness of Radon Hazards
 - Develop a school teaching kit for radon and radiological hazards,
 like those the UGS developed for other geologic topics.
 - Form a Radon Gas Hazard Working Group for DNR-UGS/DEQ collaboration and coordination on radon issues.



- Ways to Mitigate Utah Residents' Exposure to Radon
 - Adopt Appendix F (Radon Control Methods) of the International Residential Code statewide.
 - Require Radon-Resistant New Construction (RRNC) for all new government buildings.
 - Fund a study to evaluate natural, background radon levels in various geologic units found in Utah to improve radon hazard mapping and mitigation.



- Ways to Mitigate Utah Residents Exposure to Radon
 - Fund a radon testing program for existing school, daycare, jail/prison, and other government buildings.
 - Develop a no or low interest loan program for radon mitigation of existing homes (very helpful for low- and fixed-income homeowners).
 - Fund a study to evaluate the current, recommended radon action level of 4 pCi/L (picocuries per liter of air).



Final Report and Recommendations

Due

First Interim Mtg 2022



